

# Work Order ID 65654

January 21, 2011 10:55:54 AM



Page 1

Item ID: D4185-9	Accept		Setup Start	
Revision ID: PRELIM			Stop	
Item Name: Idle Stop				
Start Date: 1/21/11	Start Qty: 2.00		Cust Item ID:	
Required Date: 2/04/11	Req'd Qty: 2.00		Customer:	
Reference:				

Approvals:	Process Plan: <u>CL</u>	Date: <u>11/01/12</u>	Tooling:	Date:	Run Start	
	QC:	Date:	SPC (Y/N):	Date:	Stop	

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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Draw Nbr	Revision Nbr								
D4185	<del>PA1</del> <u>PA3</u>	<u>11.01.28</u>							
100	<u>PA5</u>								
	<u>PA7</u>								
Bandsaw	Memo	0.00							
Jeaspa Bandsaw	CUT BLAN.750" LONG	0.00		<u>11/02/09</u>		<u>2</u>	<u>0</u>		

110		0.00							
HAAS 1		0.00							
HAAS CNC vertical machine #1	Memo								
	MILL AS PER DWG AND FOLIO FB020			<u>11/02/14</u>		<u>2</u>	<u>0</u>		
	FOLIO REV: <u>AA</u>								
	DWG REV: <u>PA3</u>								
	2-DEBURR								



MATERIAL CERTIFICATION  
REQ'D UPON DELIVERY

PRELIMINARY ISSUE

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

**Work Order ID 65654**

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January 21, 2011 10:55:54 AM

Item ID: D4185-9

Accept



Setup Start



Revision ID: PRELIM

Stop



Item Name: Idle Stop

Start Date: 1/21/11

Start Qty: 2.00



Cust Item ID:

Required Date: 2/04/11

Req'd Qty: 2.00



Customer:

Reference:

Approvals:

Process Plan: \_\_\_\_\_

Date: \_\_\_\_\_

Tooling: \_\_\_\_\_

Date: \_\_\_\_\_

Run Start



QC: \_\_\_\_\_

Date: \_\_\_\_\_

SPC (Y/N): \_\_\_\_\_

Date: \_\_\_\_\_

Stop

Sequence ID/  
Work Center IDOperation  
DescriptionSet Up/  
Run Hours

Tool ID

Tool #

Plan  
CodeAccept  
QtyReject  
QtyReject  
NumberInsp.  
Stamp

120

QC2- Inspect parts off machine FAI/FAIB

0.00



QC

Memo

0.00

B-A

11/02/14

2

Ø

Quality Control

130

QC8- Inspect parts - second check

0.00



QC

Memo

0.00

SL 11/02/22

②

Quality Control

140

Identify as per dwg &amp; Stock Location: \_\_\_\_\_

0.00



Packaging

Memo

0.00

Packaging

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			



**NOTE:** Date & initial all entries


**Work Order ID 65654**

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January 21, 2011 10:55:54 AM

Item ID: D4185-9 Accept  Setup Start   
Revision ID: PRELIM Stop   
Item Name: Idle Stop  
Start Date: 1/21/11 Start Qty: 2.00  Cust Item ID:  
Required Date: 2/04/11 Req'd Qty: 2.00  Customer:  
Reference:

Approvals: Process Plan: \_\_\_\_\_ Date: \_\_\_\_\_ Tooling: \_\_\_\_\_ Date: \_\_\_\_\_ Run Start   
QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_ Stop 

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
150 	QC21- Final Inspection - Work Order Release	0.00							
QC Quality Control	Memo	0.00							

*Pl 11-009  
Eagle*

POSITIVE RECALL  
EFFECTIVE 1/21/11 AUTH   
RELEASED \_\_\_\_\_ DATE \_\_\_\_\_

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

# Picklist Print

Page 1

January 21, 2011 10:55:54 AM

Work Order ID: 65654



Parent Item: D4185-9



Parent Item Name: Idle Stop

Start Date: 1/21/11

Required Date: 2/04/11

Start Qty: 2.00

Required Qty: 2.00

Comments: IPP REV:A NEW ISSUE 11-01-20 JLM VERIFIED BY:DD

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
M304B0.500X1.500		Purchased	No			100	f	39.4360	0.0625	0.131579			



304 BAR .500 x 1.50

<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>
MAT	13.9	
116135	13.9	
MAT53	25.536	
→ 113762	25.536	

0.1315 *mk 11/02/09*

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries



DART AEROSPACE LTD		Work Order: 65654
Description: IDLE STOP PA7		Part Number: D4185-9
Inspection Dwg: D4185 Rev: PA3 PA5		Page 1 of 1

### FIRST ARTICLE INSPECTION CHECKLIST

☒ First Article ☒ Prototype

Drawing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments
0.20	+/- .030	0.192	✓		Vern	GA-01
1.04	+/- .030	1.040	✓		"	"
R0.15	+/- .030	R0.150	✓		R-6	ref.
ø 0.125	+0.004 / - .001	ø 0.126	✓		Vern	GA-01
R0.06	+/- .030	R0.063	✓		R-6	ref.
0.14	+/- .030	0.138	✓		Vern	GA-01
R0.16	+/- .030	R0.160	✓		R-6	ref.
0.55	+/- .030	0.557	✓		Vern	GA-01
0.26	+/- .030	0.262	✓		"	"
0.32	+/- .030	0.320	✓		"	"
0.15	+/- .030	0.147	✓		"	"
R0.06	+/- .030	R0.0625	✓		R-6	ref.
0.26	+/- .030	0.255	✓		Vern	GA-01
0.41	+/- .030	0.412	✓		"	"

Measured by: H.A.	Audited by: SL	Prototype Approval:
Date: 11/02/14	Date: 11/02/22	Date:

Rev	Date	Change	Revised by	Approved
A		New Issue	KJ/JLM	

## Receiving Report

Date: 10/01/25  
 Supplier: MAGNA

Batch No: M113762  
 Dart P/O: 11155

Packing Slip: Yes ☒ No ☐  
 Invoice: Yes ☐ No ☒  
 Receipt: Cash ☐ Cr ☒

Release Note Attached: Yes ☒ No ☐ N/A ☐  
 Waybill Attached: Yes ☐ No ☒ N/A ☐  
 Shipment Complete: Yes ☒ No ☐ N/A ☐  
 QC6 Inspection ☒ N/A ☒  
 Work Order 1060125

### Discrepancies

Part Number	Description	Quantity Ordered	Quantity Received	Quantity Returned	Quantity Short	Comments

Initials of receiver (if shipment OK) [Signature] Level 12

Production/Admin: 10/01/25  
 Date [Signature]  
 Received/Costing [Signature]  
 Initial [Signature]

Location \_\_\_\_\_



# Magna Stainless

5775 Kieran St, Saint-Laurent QC H4S 0A3  
Phone: (514) 339-1211 Watts: 1-800-363-6646 Fax: (514) 339-1105

## INVOICE

Pg 1 of 1 I022123

### SOLD TO:

DART AEROSPACE LTD  
1270 ABERDEEN STREET  
HAWKESBURY , ON  
K6A 1K7

### SHIP TO:

DART AEROSPACE LTD  
1270 ABERDEEN STREET  
HAWKESBURY , ON  
K6A 1K7

MTR:Y

INVOICE DATE:	01/25/10
ORDER DATE:	01/19/10
SHIP DATE:	01/25/10
ORDER NUMBER:	W024100
PURCHASE ORDER:	P011155

Currency		Sales Person		Ship Via		F.O.B.		Terms	
CANADIAN DOLLARS		ERYCK BLAIS		NIR:R-557065-1		PREPAID		NET 30 DAYS	
Ln.	Back Ordered	Ordered	Unit	Description		Shipped		Price Per	Value
		2	PC	STAINLESS PLATS SFL 304 HR 1/2" x 1-1/2" x R/L L035582 13'9" 2 PC/69 LB		2 UN		125.00	250.00

RECEIVED FEB 01 2010

01/26/10 13:24:53

PST Exmp No:EXEMPT

Merchandise:	250.00
Surcharges:	
No Tax Costs:	
GST	12.50
Total Due:	262.50

Title to the goods sent out on this invoice remains with Magna Stainless Div of CSM ULC until such time as this invoice has been paid in full. Unless otherwise noted terms are 30 days. Interest accrues on all overdue accounts at the rate of 1.5% per month compounded monthly.

Q.S.T. # 1213236471  
G.S.T. # 881565899 RT0001

## Page 1 of 1

All amounts are calculated in domestic currency.

Grouped by Vendor ID

Purchase Order ID/ Curr Type	Line Nbr/ Insp Req	Project ID	Reference/ Description/ Cert Std	PO U/M/ Stock U/M	Required Date Required Qty	Recv Date/ Recv Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
VendorID\Vendor Name		VC-MAG002	Magun Stainless								
PO11155	1		M304B0.500X1.500 f		1/22/2010	1/25/2010	27.8000	\$12.50	0.0000	0	\$347.50
CAD	No		304 BAR .500 x 2.50 f		20.0000	Stores		\$347.50	0.0000	0	
			113762								
									Total Received Quantity:		27.8000
									Total Qty to Inspect (PO U/M):		0.0000
									Total Reject Quantity:		0.0000
									Total Receipt Value:		\$347.50
									Total Balance Due Quantity:		0.0000



# Magna Stainless

5775 Kieran St, Saint-Laurent, Quebec H4S 0A3  
Phone: (514) 339-1211 Watts: 1-800-363-6646 Fax: (514) 339-1105



## PACKING LIST

Page 1 of 1 I022123

SOLD TO:  
DART AEROSPACE LTD  
1270 ABERDEEN STREET

SHIP TO:  
DART AEROSPACE LTD  
1270 ABERDEEN STREET

HAWKESBURY , ON  
K6A 1K7  
Contact: LINDA

HAWKESBURY , ON  
K6A 1K7  
Ship Terms: PREPAID



MTR:Y

SPECIAL INSTRUCTIONS

Currency		Sales Person		Customer Phone	Customer Fax	Customer PO	
CANADIAN DOLLARS		ERYCK BLAIS		(613) 632-5200	(613) 632-1053	P011155	
Sales Order	Terms		Ship Via		Date Ordered	Date Required	Date Shipped
W024100	NET 30 DAYS		NIR:R-557065-1		01/19/10	01/25/10	01/25/10

Ordered	Back Ordered	Unit	Description	Bundle #	Heat #	Shipped
2		PC	STAINLESS FLATS SFL 304 HR 1/2" x 1-1/2" x R/L 13'9" 69 LB / 2 PC	L035582	81459	2
Bundles: 1				Approx	Weight:	69 LB

Received by: \_\_\_\_\_ Date: \_\_\_\_\_ Signature: \_\_\_\_\_

**M/S. VIRAJ PROFILES LTD.**

F/QAD/08

**VIRAJ**<sup>®</sup>

10 Imperial Chambers, 1st Floor,  
Wilson Road, Mumbai 400 038  
INDIA

**TEST CERTIFICATE****CUSTOMER****ORDER NO****PACKING LIST NO****INSPECTION NO****DATE**

P00951

PROP/905647/18

100000252846

27.10.2009

**GRADE****HEAT No**

304/304L

81459

**BUNDLE NO :**  
5614337**DESCRIPTION**

STAINLESS STEEL FLAT BARS

8  
10/10/25**HOT ROLLED ANNEALED & PICKLED**

SIZE	SHAPE	TOLERANCE	LENGTH	PIECES	WEIGHT
1 1/2" X 1/2"	FLAT	ASTM A484	12' - 14'	42	1,473.000 LB

**CHEMICAL ANALYSIS**

%C	%Mn	%Si	%S	%P	%Cr	%Ni	%Cu	%Mo	%Co	%N2
0.0200	1.750	0.480	0.0200	0.0370	18.100	8.080	0.5600	0.3200	0.1300	0.08500

**TEST RESULTS**

Tensile strength ksi	0.2% Yield Strength ksi	% Elongation	% Reduction area	Hardness BHN	Grain size no
96.0	45.0	44.0	58.0	196.0	7.00

**SPECIFICATION:**

MATERIAL CONFORMS TO ASTM-A276-06 COND. A, ASTM A314, ASTM-A182-06 COND. A, ASME-SA182-01 COND. A, ASTM-A479/A479M-06a COND. A, ASME-SA479/A479M-00, COND. A, AMS-QQ5-763F, COND. A, ASTM-A484/A484M-06b, ASME-SA484/A484M-06, AMS-5639 H1 / AMS-5647 H, UNS-S-30400/UNS-S-30403, MATERIAL PASSES IOC TEST (FREE FROM CONTINUOUS CARBIDE) AS PER ASTM A262-02a3, PRACTICE "B", GRAIN SIZE AS PER ASTM E112-96 (2004)2, TEST CERTIFICATION IN ACCORDANCE WITH EN 10204:2005-3.1, STEEL MELTING PROCESS: INDUCTION MELTED & AOD REFINED, COLOUR CODE: RED.

**REMARKS**

FREE FROM RADIO ACTIVE CONTAMINATION, MERCURY CONTAMINATION, NO WELDING OR WELD REPAIRS, MACRO-SATISFACTORY, MICROSTRUCTURE-AUSTENITIC AS PER QQ5-763, SOLUTION ANNEALED TEMP.1050C, TREATED FOR 45 MINUTES & WATER QUENCHED, COUNTRY OF MELTING & MANUFACTURING:INDIA

We hereby certify that the material described above has been tested and complies with the terms of order/contract.

400

U.K.BARANWAL, GM(Q.A.)

P008682

**L Lacelle**

**From:** Eryck Blais [eblais@magnastainless.com]  
**Sent:** January 18, 2010 9:29 AM  
**To:** 'L Lacelle'  
**Subject:** RE: rfq

HI LINDA

2 PCS 125.00 EACH  
DELAY 2-4 DAYS  
THANK YOU  
ERYCK

**From:** L Lacelle [mailto:llacelle@dartaero.com]  
**Sent:** Monday, January 18, 2010 9:13 AM  
**To:** Eryck Blais  
**Subject:** rfq

20' x 304 bar .500 x 1.500

Thank You,  
Linda Lacelle  
Production Manager  
Dart Aerospace Ltd

M304 B0.500 x 1.500  
20' - 12.50/ft

MAGNA

TRANSMISSION VERIFICATION REPORT

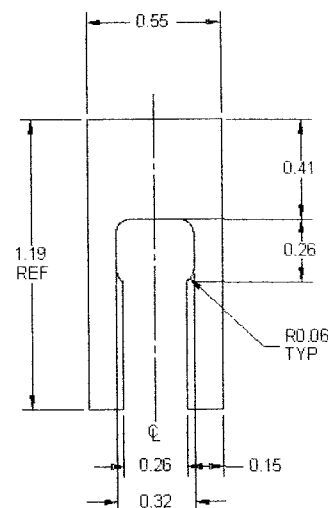
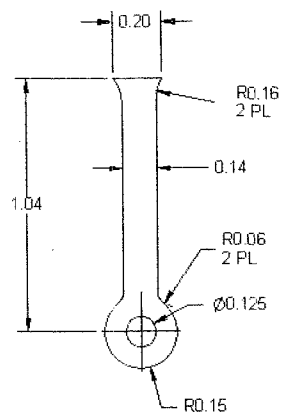
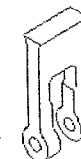
TIME : 02/28/2008 21:10  
NAME :  
FAX :  
TEL :  
SER.# : F9N212739

DATE, TIME  
FAX NO./NAME  
DURATION  
PAGE(S)  
RESULT  
MODE

02/28 21:10  
15143391105  
00:00:17  
01  
OK  
STANDARD  
EOM



w/o 65654



# **D4185-9 IDLE STOP**

**PRELIMINARY ISSUE**

10.11.12

## **NOTES:**

- 1) MATERIAL: AISI 304/316 STAINLESS STEEL BAR  
PER ASTM A276  
REF DART SPEC M304B
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 0.02 lbs

DESIGN		<b>DART AEROSPACE LTD</b>
DRAWN		HAWKESBURY, ONTARIO, CANADA
CHECKED		DRAWING NO. REV. PA7
MFG. APPR.		<b>D4185</b> SHEET 6 OF 9
APPROVED		TITLE SCALE
DE APPR.		<b>INTERNAL BELL CRANK</b> NTS
DATE	<b>10.11.12</b>	<small>COPYRIGHT © 2010 BY DART AEROSPACE LTD THIS DOCUMENT IS PROPRIETARY AND CONFIDENTIAL. IT IS TO BE USED FOR THE PURPOSE OF COMPLETING TODAY'S ORDER ONLY. IT IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.</small>